

EXPRESS MAIL CERTIFICATE

Date 8/25/04 Label No. EV 420210242 US

I hereby certify that, on the date indicated above I deposited this paper or fee and every paper referred to therein with the U.S. Postal Service and that it was addressed for delivery to the Commissioner for Patents, P O Box 1450, Alexandria, VA 22313-1450 by "Express Mail Post Office to Addressee" service.

PATENT

Attorney Docket No. 004609

RW Ref. No. APM/039-00



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re Application of: Hiroji HANAWA, et al.) Group Art Unit: 1763
Entitled: EXTERNALLY EXCITED TORROIDAL PLASMA SOURCE) Examiner: R. McDonald
Serial No.: 09/638,075)
Filing Date: August 11, 2000)

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97(b)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Attached hereto is Form PTO-1449 listing documents believed relevant to the subject application. It is respectfully requested that these documents be made of record and an initialed copy of each form be returned to the undersigned.

No representation is made that more pertinent material is not available or should not be considered by the Examiner. It is expected that the Patent and Trademark Office will independently conduct a complete search of appropriate art. Furthermore, no admission is being made that these documents are prior art, and applicant reserves the right to challenge any such consideration.

It is believed that this disclosure complies with the requirements of 37 CFR 1.56, 1.97, and 1.98, and the Manual of Patent Examining Procedures, section 609 and 707.05. If for some reason the Examiner considers otherwise, it is respectfully requested that the undersigned be called so that any deficiencies can be remedied.

A copy of each foreign patent document and/or non-patent literature is enclosed. Some of the documents may have markings on them. No significance is meant to be attached to the markings. These documents are not necessarily analogous art.

Respectfully submitted,



Dated: 08/13/04

Robert M. Wallace
Registration No. 29,119
Customer No. 000044843
Attorney for Applicants

Robert M. Wallace
Patent Counsel
2112 Eastman Avenue, Suite 102
Ventura, CA 93003
(805) 644-4035

INFORMATION
DISCLOSURE
STATEMENT BY APPLICANT
Sheet 1 of 7



Application Number: 09/638,075
Filing Date: August 11, 2000
First Named Inventor: Hiroji HANAWA, et al.
Group Art Unit: 1763
Examiner Name: Rodney McDonald
Attorney Docket Number: 004609

U. S. PATENT DOCUMENTS

Examiner Initials	Document No	Publication Date	Name of Patentee or Applicant of Cited Document	Class	Subclass	Filing Date
	US-3,576,685	04-27-1971	SWANN ET AL.	148	187	03-15-1968
	US-3,907,616	09-23-1975	WIEMER	148	188	08-16-1974
	US-4,116,791	09-26-1978	ZEGA	204	192	05-18-1977
	US-4,382,099	05-03-1983	LEGGE ET AL.	427	34	10-26-1981
	US-4,385,946	05-31-1983	FINEGAN ET AL.	148	175	06-19-1981
	US-4,434,036	02-28-1984	HOERSCHELMANN ET AL.	204	164	05-03-1982
	US-4,465,529	08-14-1984	ARIMA ET AL.	148	188	06-04-1982
	US-4,481,229	11-06-1984	SUZUKI ET AL.	427	38	06-20-1983
	US-4,500,563	02-19-1985	ELLENBERGER ET AL.	427	38	12-15-1982
	US-4,521,441	06-04-1985	FLOWERS	427	38	12-19-1983
	US-4,539,217	09-03-1985	FARLEY	427	10	06-27-1984
	US-4,565,588	01-21-1986	SEKI ET AL.	148	186	10-10-1984
	US-4,698,104	10-06-1987	BARKER ET AL.	437	141	03-02-1987
	US-4,764,394	08-16-1988	CONRAD	427	38	01-20-1987
	US-4,892,753	01-09-1990	WENG ET AL.	427	38	10-26-1988

Examiner's Signature:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION
DISCLOSURE
STATEMENT BY APPLICANT

Sheet 2 of 7



AUG 26 2004

Application Number: 09/638,075
 Filing Date: August 11, 2000
 First Named Inventor: Hiroji HANAWA, et al.
 Group Art Unit: 1763
 Examiner Name: Rodney McDonald
 Attorney Docket Number: 004609

U. S. PATENT DOCUMENTS

Examiner Initials	Document No	Publication Date	Name of Patentee or Applicant of Cited Document	Class	Subclass	Filing Date
	US-4,912,065	05-27-1990	MIZUNO ET AL.	437	141	05-26-1988
	US-4,937,205	06-26-1990	NAKAYAMA ET AL.	437	165	08-04-1988
	US-5,040,046	08-13-1991	CHHABRA ET AL.	357	54	01-09-1990
	US-5,074,456	12-24-1991	DEGNER ET AL.	228	121	09-18-1990
	US-5,270,250	12-14-1993	MURAI ET AL.	437	165	12-23-1991
	US-5,312,778	05-17-1994	COLLINS ET AL.	437	225	11-23-1990
	US-5,354,381	10-11-1994	SHENG	118	723	05-07-1993
	US-5,514,603	05-07-1996	SATO	437	16	05-06-1994
	US-5,288,650	02-22-1994	SANDOW	437	24	10-09-1992
	US-5,561,072	10-01-1996	SATO	437	24	11-21-1994
	US-5,572,038	11-05-1996	SHENG ET AL.	250	492.21	05-07-1993
	US-5,587,038	12-24-1996	CECCHI ET AL.	15	345	06-16-1994
	US-5,627,435	05-06-1997	JANSEN ET AL.	315	111.21	02-15-1996
	US-5,648,701	06-15-1997	HOOKE ET AL.	315	111.21	06-28-1994
	US-5,643,838	07-01-1997	DEAN ET AL.	437	238	09-03-1993
	US-5,653,811	08-05-1997	CHAN	128	723	07-19-1995
	US-5,654,043	08-05-1997	SHAO ET AL.	427	527	10-10-1996
	US-5,660,895	08-26-1997	LEE ET AL.	427	579	04-24-1996
	US-5,674,321	10-07-1997	PU ET AL.	118	723	04-28-1995
	US-5,711,812	01-27-1998	CHAPEK ET AL.	118	723	06-06-1995
	US-5,718,798	02-17-1998	DEREGIBUS	156	429	04-10-1996

Examiner's Signature:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION
DISCLOSURE
STATEMENT BY APPLICANT

Sheet 3 of 7

AUG 26 2004

Application Number: 09/638,075
Filing Date: August 11, 2000
First Named Inventor: Hiroji HANAWA, et al.
Group Art Unit: 1763
Examiner Name: Rodney McDonald
Attorney Docket Number: 004609



U. S. PATENT DOCUMENTS

Examiner Initials	Document No	Publication Date	Name of Patentee or Applicant of Cited Document	Class	Subclass	Filing Date
	US-5,888,413	03-30-1999	OKUMURA ET AL.	216	68	05-30-1996
	US-5,911,832	06-15-1999	DENHOLM ET AL.	118	723	01-09-1997
	US-5,985,742	11-16-1999	HENLEY ET AL.	438	515	02-19-1998
	US-5,994,236	11-30-1999	OGLE	48	728	01-23-1998
	US-5,994,236	11-30-1999	OGLE	438	728	01-23-1998
	US-6,000,360	1-14-1999	KOSHIMUZU	118	723	07-02-1997
	US-6,013,567	01-11-2000	HENLEY ET AL.	438	515	05-05-1999
	US-6,020,592	02-01-2000	LIEBERT ET AL.	250	492.21	08-03-1998
	US-6,050,218	04-18-2000	CHEN ET AL.	118	723	09-28-1998
	US-6,076,483	06-20-2000	SHINTANI ET AL.	118	723	03-26-1998
	US-6,096,661	08-01-2000	NGO ET AL.	438	788	1-15-1998
	US-6,101,971	08-15-2000	DENHOLM ET AL.	118	723	12-22-1998
	US-6,103,599	08-15-2000	HENLEY ET AL.	438	459	06-03-1998
	US-6,153,524	11-28-2000	HENLEY ET AL.	438	691	07-28-1998
	US-6,155,090	12-05-2000	RUBENSON	70	367	10-30-1997
	US-6,164,241	12-26-2000	CHEN ET AL.	118	723	06-30-1998
	US-6,165,376	12-26-2000	MIYAKE ET AL.	216	67	01-05-1998

Examiner's Signature:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION
DISCLOSURE
STATEMENT BY APPLICANT

Sheet 4 of 7

AUG 26 2004

Application Number: 09/638,075
 Filing Date: August 11, 2000
 First Named Inventor: Hiroji HANAWA, et al.
 Group Art Unit: 1763
 Examiner Name: Rodney McDonald
 Attorney Docket Number: 004609

PATENT & TRADEMARK OFFICE

U. S. PATENT DOCUMENTS

Examiner Initials	Document No	Publication Date	Name of Patentee or Applicant of Cited Document	Class	Subclass	Filing Date
	US-6,174,450 B1	01-16-2001	PATRICK ET AL.	216	61	04-16-1997
	US-6,174,743 B1	01-16-2001	PANGRLE ET AL.	438	14	12-08-1998
	US-6,182,604 B1	02-06-2001	GOECKNER ET AL.	118	723	10-27-1999
	US-6,187,110 B1	02-13-2001	HENLEY ET AL.	148	33.2	05-21-1999
	US-6,207,005 B1	03-27-2001	HENLEY ET AL.	156	345	07-28-1998
	US-6,237,527 B1	05-29-2001	KELLERMAN ET AL.	118	723	08-06-1999
	US-6,248,642 B1	06-19-2001	DONLAN ET AL.	438	407	06-24-1999
	US-6,265,328 B1	07-24-2001	HENLEY ET AL.	438	782	01-28-1999
	US-6,291,313 B1	09-18-2001	HENLEY ET AL.	438	458	05-18-1999
	US-6,291,939 B1	09-18-2001	DOLAN ET AL.	438	407	06-24-1999
	US-6,300,643 B1	10-09-2001	FANG ET AL.	250	492.21	12-06-1999
	US-6,303,519 B1	10-16-2001	HSIAO ET AL.	438	758	07-20-2000
	US-6,305,316 B1	10-23-2001	DIVERGILIO ET AL.	118	723	07-20-2000
	US-6,335,536 B1	01-01-2002	GOECKNER ET AL.	250	492.3	10-27-1999
	US-6,339,297 B1	01-15-2002	SUGAI ET AL.	315	111.21	07-21-1999
	US-6,341,574 B1	01-29-2002	BAILEY III ET AL.	118	723	11-15-1999
	US-6,392,351 B1	05-21-2002	SHUN'KO	315	111.51	05-03-1999
	US-6,403,453 B1	06-11-2002	ONO ET AL.	438	513	07-27-2000
	US-6,410,449 B1	07-25-2002	HANAWA ET AL.	438	706	08-11-2000

Examiner's Signature:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION
DISCLOSURE
STATEMENT BY APPLICANT
Sheet 5 of 7



Application Number: 09/638,075
Filing Date: August 11, 2000
First Named Inventor: Hiroji HANAWA, et al.
Group Art Unit: 1763
Examiner Name: Rodney McDonald
Attorney Docket Number: 004609

U. S. PATENT DOCUMENTS

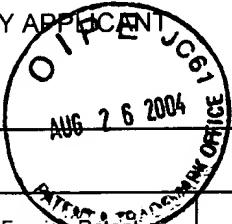
Examiner Initials	Document No	Publication Date	Name of Patentee or Applicant of Cited Document	Class	Subclass	Filing Date
	US-6,417,078 B1	07-09-2002	DOLAN ET AL.	438	480	12-21-2000
	US-6,418,874 B1	07-16-2002	COX ET AL.	118	723	05-25-2000
	US-6,426,015 B1	07-30-2002	XIA ET AL.	216	62	12-14-1999
	US-6,433,553 B1	08-13-2002	GOECKNER ET AL.	324	464	10-27-1999
	US-6,453,842 B1	09-24-2002	HANAWA ET AL.	118	723	08-11-2000
	US-6,468,388 B1	10-22-2002	HANAWA ET AL.	156	345.48	08-11-2000
	US-6,494,986 B1	12-17-2002	HANAWA ET AL.	156	345.35	08-11-2000
	US-6,511,899 B1	01-28-2003	HENLEY ET AL.	438	515	05-06-1999
	US-6,514,838 B2	02-04-2003	CHAN	438	513	06-27-2001
	US-6,528,391 B1	03-04-2003	HENLEY ET AL.	438	459	05-21-1999
	US-6,551,446 B1	04-22-2003	HANWA ET AL.	156	345.48	08-11-2000
	US-6,559,408 B2	05-06-2003	SMITH ET AL.	219	121.57	05-10-2002
	US-6,593,173 B1	02-15-2003	ANC ET AL.	438	149	11-28-2000
	US-6,582,999 B2	06-24-2003	HENLEY ET AL.	438	221	04-05-2001
	US-6,679,981 B1	01-20-2004	PAN ET AL.	204	298.06	05-11-2000
	US 2001/0042827 A1	11-22-2001	FANG ET AL.	49	00	07-27-2001
	US 2002/0047543 A1	04-25-2002	SUGAI ET AL.	315	111.21	10-10-2001

Examiner's Signature:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION
DISCLOSURE
STATEMENT BY APPLICANT
Sheet 6 of 7



Application Number: 09/638,075
Filing Date: August 11, 2000
First Named Inventor: Hiroji HANAWA, et al.
Group Art Unit: 1763
Examiner Name: Rodney McDonald
Attorney Docket Number: 004609

FOREIGN PATENT DOCUMENTS

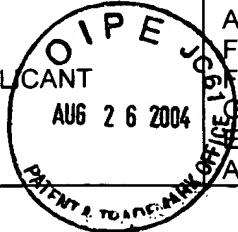
Examiner Initials	Foreign Patent Document	Publication Date	Country	Name of Patentee or Applicant of Cited Document	Translation? (Yes/No/n/a)
	EP 0 836 218 A2	15.04.1998	EUROPE	SERGIO EDELSTEIN ET AL.	N/A
	EP 0 964 074 A2	15.12.1999	EUROPE	ALEC DENHOLM ET AL.	N/A
	EP 1 111 084 A1	27.06.2001	EUROPE	JAMES BERNSTEIN ET AL.	N/A
	EP 1 191 121 A1	27.03.2002	EUROPE	MICHELANGELO DELFINO	N/A
	JP 59-218728	10.12.1984	JAPAN	UNKNOWN	NO
	JP 59-86214	18.05.1984	JAPAN	UNKNOWN	NO
	JP 62-120041	01.06.1987	JAPAN	UNKNOWN	NO
	WO 93/18201	16.09.2003	WIPO	FELCH ET AL.	N/A
	WO 02/25694 A2	28.03.2002	WIPO	JAMES BERNSTEIN ET AL.	N/A

Examiner's Signature:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION
DISCLOSURE
STATEMENT BY APPLICANT
Sheet 7 of 7



Application Number: 09/638,075
Filing Date: August 11, 2000
First Named Inventor: Hiroji HANAWA, et al.
Group Art Unit: 1763
Examiner Name: Rodney McDonald
Attorney Docket Number: 004609

NON PATENT LITERATURE DOCUMENTS

Examiner Initials

Van de Ven, Evert P., Connick, I-Wen, and Harrus, Alain S., "ADVANTAGES OF DUAL FREQUENCY PECVD FOR DEPOSITION OF ILD AND PASSIVATION FILMS", *IEEE*, Proceedings of VMIC Conference, June 12-13, 1990, pp. 194-201.

Examiner's Signature:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.